

What is claimed is:

1. An authentication device using anatomical information, comprising:

5 an anatomical information obtaining unit
obtaining anatomical information;

an identification information generating unit
generating identification information specifying the
anatomical information;

10 an additional information generating unit
generating additional information verifying the
identification information; and

15 a collation information generating unit
encrypting the anatomical information and at least
either the identification information or additional
information, and generating collation information by
combining encrypted anatomical information, encrypted
additional information and identification information.

20 2. The authentication device according to claim 1,
wherein the additional information and anatomical
information are encrypted.

3. The authentication device according to claim 1,
25 wherein a collection time of anatomical information

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a counting unit, which is built into the anatomical information generating unit counting a

counter value of the collection time of anatomical information; and

a collation information generating unit generating collation information by combining the anatomical information and the counter value of the counting unit.

Sub 61 7. An authentication device using anatomical information, comprising:

10 an anatomical information generating unit generating anatomical information based on a collected image;

an identification information generating unit generating identification information which comprises at least identification information for specifying the anatomical information generating unit or order information for specifying a collection order of anatomical information generated in the anatomical information generating unit; and

20 a collation information generating unit generating collation information by combining the anatomical information and identification information.

8. An authentication device using anatomical information, comprising:

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9. An authentication device in an authentication system using anatomical information which is connected to a collection device for collecting anatomical information via a network, comprising:

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a collation information generating unit
generating collation information by combining the
anatomical information and identification information.

13. An authentication device using anatomical
5 information, comprising:

an identification information obtaining unit
obtaining identification information uniquely
10 designating an environment where the anatomical
information is obtained; and

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14. A collation information generating method for authentication using anatomical information, comprising:

20 generating identification information specifying
the anatomical information;

encrypting the anatomical information and at
25 least either the identification information or

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the anatomical information, the additional information is used to verify the identification information, a new piece of additional information is generated every time the identification information is added, and the information is added to the collation information.

19. A collation information generating method for authentication using anatomical information, comprising:

10 generating anatomical information based on a collected image;

 obtaining a counter value of time information about when anatomical information is collected in the anatomical information generating step; and

15 generating collation information by combining the anatomical information and counter value.

20. A collation information generating method for authentication using anatomical information, comprising:

 generating anatomical information based on a collected image;

 generating identification information for specifying a generation environment of the anatomical information; and

generating collation information by combining the anatomical information and identification information.

21. A collation information generating method for authentication using anatomical information, comprising:

generating anatomical information based on a collected image;

generating identification information based on information provided from outside; and

generating collation information by combining the anatomical information and identification information.

22. An authentication method in an authentication system using anatomical information which is connected to a collection device for collecting anatomical information via a network, comprising:

generating anatomical information based on a collected image;

generating identification information composed of information about a route taken between a collection device and an authentication device; and

generating collation information by combining the anatomical information and identification information.

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26. An authentication method using anatomical

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information, comprising:

obtaining anatomical information;

obtaining identification information uniquely designating an environment where the anatomical information is obtained; and

encrypting and transmitting anatomical information and identification information.

27. A computer-readable storage medium on which is
10 recorded a program enabling a computer to generate
collation information for authentication using
anatomical information, said process comprising:

obtaining anatomical information;

generating identification information specifying
15 the anatomical information;

generating additional information verifying the
identification information;

encrypting the anatomical information and at least either the identification information or additional information and generating collation information by combining encrypted anatomical information, encrypted additional information and identification information.

25 28. A computer-readable storage medium on which is

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30. A computer-readable storage medium on which is recorded a program enabling a computer to generate

5 generating identification information based on
information provided from outside; and

generating collation information by combining the anatomical information and identification information.

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        generating anatomical information based on a
15    collected image;

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generating collation information by combining the
20 anatomical information and identification information.

32. A computer-readable storage medium on which is recorded a program enabling a computer to generate collation information for authentication using anatomical information, said process comprising:

collating anatomical information with
information registered in advance;

judging whether identification information
received together with anatomical information meets
5 prescribed requirements; and

verifying identification information by an
operation value obtained by mapping additional
information.

10 33. A computer-readable storage medium on which is
recorded a program enabling a computer to generate
collation information for authentication using
anatomical information, said process comprising:

collating anatomical information with information
15 registered in advance; and

judging whether identification information
received together with anatomical information meets
prescribed requirements.

20 34. A computer-readable storage medium on which is
recorded a program enabling a computer to generate
collation information for authentication using
anatomical information, said process comprising:

obtaining anatomical information;
25 obtaining identification information uniquely

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